

FD
662

INFORMATION REPORT

CD NO.

COUNTRY Austria/USSR

DATE DISTR. 15 AUG 49

SUBJECT Building of Engine Testing Apparatus by Voith
and Brown-Boveri (Ost)

NO. OF PAGES 1

PLACE ACQUIRED

NO. OF ENCLS.
(LISTED BELOW)

50X1-HUM

DATE OF IN

SUPPLEMENT TO
REPORT NO.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE SPY ACT OF 1917, U.S.C., §1 AND §2, AS AMENDED. ITS TRANSMISSION OR DISSEMINATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

50X1-HUM

1. In January 1948, USIA ordered a series of AC and DC-driven motors and dynamos from Brown-Boveri (Ost), and six high speed gearboxes, capable of 9/12,000 revolutions a minute, from J.M. Voith.
2. The target date for completion was 1 May, 1949; the project was given top priority in both Brown-Boveri and Voith. Because of the inability of Boehler and Schoeller-Blockmann to deliver cast iron sheets for the stator and bearing plates, the time limit was extended to 1 July, 1949. Two sets of motors and dynamos and six gearboxes have now been completed.
3. Originally, USIA stated that a machine would be flown from Moscow to the Brown-Boveri works in Vienna to be tested by this apparatus; the machine was referred to as a high-speed engine. The Russians have now requested that the apparatus be tested on its own; if proved successful, the tests on the unknown machine would then be carried out in Russia.
4. The method of operation of the testing apparatus is as follows:
 - a) An AEG asynchronous motor, worked off AC mains current, will drive the Brown-Boveri dynamo GN 166a; this will produce DC current at varying strengths and will be controlled by an attached field exciter.
 - b) The DC current will drive a DC motor (GQ 186), the speed of which is in turn controlled by another field exciter.
 - c) The GQ 186 motor will drive the gearbox at speeds between 9,000 and 12,000 r.p.m.; this gearbox will be attached mechanically to the engine under test.
 - d) The AEG motor, dynamo GN 166a and field exciter are mounted on one baseplate, the DC motor (GQ 186), second field exciter and gearbox on another.
 - e)
 - 1) The AEG is a 4-pole motor.
 - 2) The dynamo GN 166a has the following specifications: 90 kw.
460 volts.
194 amps.
1460 rpm.
 - 3) The DC motor (GQ 186) has the following specifications: 440 volts.
141 amps.
500 rpm.

CLASSIFICATION CONFIDENTIAL - U.S. OFFICIALS ONLY

| STATE | NAVY | NSRB | DISTRIBUTION | | | | | |
|-------|------|------|--------------|--|--|--|--|--|
| ARMY | AIR | FBI | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Document No. 010

NO CHANGE in Class. DECLASSIFIED

Class. CHANGED TO: TS S ①

4 Apr 77

Auth: RDP 44-77

Date: MAY 26 1978

50X1-HUM